

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (original) A method for scheduling and delivery of an ordered product to a buyer along
2 the buyer's commuting route, comprising:

receiving route information from a buyer;

4 generating a route from the route information;

selecting from a plurality of pickup points a pickup point based on the route;

6 and

dispatching a portable locker station to the pickup point, the portable locker

8 station enclosing the ordered product.

2. (original) The method of Claim 1, wherein the route information includes at least two
2 landmarks and generating a route further includes finding a route of shortest distance between
the two landmarks.

3. (original) The method of Claim 1, wherein the route information includes at least two
2 sub-routes and generating a route further includes finding a route of shortest distance between
the two sub-routes.

4. (original) The method of Claim 1, wherein the portable locker station includes a plurality
2 of lockers for enclosing products, each of the plurality of lockers having a unique access code,
the method further comprising transmitting to the buyer an access code for a locker enclosing

4 the buyer's product, the locker selected from the plurality of lockers.

5. (original) A data processing system adapted to schedule and deliver an ordered product to
2 a buyer along the buyer's commuting route, comprising:

a processor; and

4 a memory operably coupled to the processor and having program instructions
stored therein, the processor being operable to execute the program instructions, the
6 program instructions including:

receiving route information from a buyer;

8 generating a route from the route information;

selecting from a plurality of pickup points a pickup point based on the route;

10 and

dispatching a portable locker station to the pickup point, the portable locker
12 station enclosing the ordered product.

6. (original) The data processing apparatus of claim 5, wherein the route information
2 includes at least two landmarks, the program instructions for generating a route further
including finding a route of shortest distance between the two landmarks.

7. (original) The data processing apparatus of claim 5, wherein the route information
2 includes at least two sub-routes, the program instructions for generating a route further
including finding a route of shortest distance between the two sub-routes.

8. (original) The data processing apparatus of claim 5, wherein the portable locker station
includes a plurality of lockers for enclosing products, each of the plurality of lockers having
a unique access code, the program instructions further including transmitting to the buyer an
access code for a locker enclosing the buyer's product, the locker selected from the plurality
of lockers.

9 - 11 (cancelled)

12. (currently amended) The method of claim 1, wherein the route information includes a first
reference point ~~and a channel width.~~

13. (cancelled)

14. (currently amended) The method of claim 12, wherein the first reference point is an address
and the route information further includes a channel width.

15. (previously presented) The method of claim 12, wherein the first reference point is a
phone number.

16. (previously presented) The method of claim 12, wherein the first reference point is a
Zip Code.

17. (currently amended) The data processing system of claim 5, wherein the route information

includes a first reference point ~~and a channel width~~.

18. (previously presented) The data processing system of claim 17, wherein the first reference point is a Zip Code.

19. (currently amended) The data processing system of claim 17, wherein the first reference point is an address and the route information further includes a channel width.

20. (previously presented) The data processing system of claim 17, wherein the first reference point is a phone number.

21. (currently amended) A method of scheduling and delivery of a product to a buyer along the buyer's commuting route wherein a buyer accesses a server via a communications network, comprising:

receiving by the server from the buyer via the communications network route information, the route information including a first reference point ~~and a channel width~~;

selecting ~~by the server~~ from a plurality of pickup points a pickup point based on the route information; and

dispatching by the server a mobile pickup station to the pickup point, the mobile pickup station containing a product ordered by the buyer.

22. (currently amended) The method of claim 21, wherein the first reference point is an address

2 and the route information further includes a channel width.

23. (Previously presented) The method of claim 21, wherein the first reference point is a
2 phone number.

24. (Previously presented) The method of claim 21 wherein the first reference point is a Zip
2 Code.

25. (currently amended) A data processing system adapted to schedule and deliver an ordered
2 product to a buyer along the buyer's commuting route, comprising:

 a processor; and

4 a memory operably coupled to the processor and having program instructions
 stored therein, the processor being operable to execute the program instructions, the
6 program instructions including:

 receiving by the data processing system from a buyer via a communications
8 network route information, the route information including a first reference point and
 a channel width;

10 selecting by the data processing system from a plurality of pickup points a
 pickup point based on the route information; and

12 dispatching by the data processing system a mobile pickup station to the pickup
 point, the mobile pickup station containing a product ordered by the buyer.

26. (currently amended) The data processing system of claim 25, wherein the first reference

point is an address and the route information further includes a channel width.

27. (previously presented) The data processing system of claim 25, wherein the first
reference point is a phone number.

28. (previously presented) The data processing system of claim 25, wherein the first
reference point is a Zip Code.

29. (new) The method of claim 21 further comprises: receiving product preference
information from the buyer; and ordering products for the buyer by using the preference
information.

30. (new) The method of claim 29, wherein the preference information includes price
limitation on products ordered.

31. (new) The method of claim 29, wherein the preference information includes occurrence
rate of each product ordered.

32. (new) The method of claim 21 further comprising: selecting by the buyer a date; and
delivering by the server the product ordered according to the date

33. (new) The data processing system of claim 25, the program instructions further
comprising: receiving product preference information from the buyer, and ordering

products for the buyer by using the preference information

34. (new) The data processing system of claim 33, wherein the preference information
2 includes price limitation on products.

35. (new) The data processing system of claim 33, wherein the preference information
2 includes occurrence rate of product ordered.

36. (new) The data processing system of claim 25 further comprising: selecting by the buyer
2 a date; and delivering by the server the product ordered according to the date.

37. (new) A method for scheduling and delivery of a product to a buyer along the buyer's
2 commuting route wherein a buyer accesses a server via a communications network,
comprising: receiving route information from a buyer by the server via the
4 communications network; the route information including a first reference point; selecting
from a plurality of fixed pickup stations a fixed pickup station based on the route
6 information; and delivering a product ordered by the buyer to the fixed pickup station.

38. (new) The method of claim 37, wherein the first reference point is a address, the route
2 information further includes a channel width.

39. (new) The method of claim 37, wherein the first reference point is a telephone number.

40. (new) The method of claim 37, wherein the first reference point is a zip code.

41. (new) The method of claim 37 further comprises: receiving product preference
information from the buyer; and ordering products for the buyer by using the preference
information.

42. (new) The method of claim 41, wherein the preference information includes price
limitation on products.

43. (new) The method of claim 41, wherein the preference information includes occurrence
rate of product ordered.

44. (new) The method of claim 37 further comprising: selecting by the buyer a date; and
delivering by the server the product ordered according to the date.

45. (new) The method of claim 37, wherein: the fixed pickup station includes a plurality of
lockers for containing orders, each of the plurality of lockers having a unique access code;
and giving the user the access code for opening the locker containing the user's order.

46. (new) A data processing system adapted to schedule and deliver a product to a buyer
along the buyer's commuting route, comprising:

a processor; and a memory operably coupled to the processor and having

4 program instructions stored therein, the processor being operable to execute the
program instructions, the program instructions including: receiving route
6 information from a buyer, the route information includes a first reference point;
selecting from a plurality of fixed pickup stations a fixed pickup station based on
8 the route information; and delivering a product ordered by the buyer to the fixed
pickup station.

47. (new) The data processing system of claim 46, wherein the first reference point is an
2 address, the route information further includes a channel width.

48. (new) The data processing system of claim 46, wherein the first reference point is a
2 telephone number.

49. (new) The data processing system of claim 46, wherein the first reference point is a zip
2 code.

50. (new) The data processing system of claim 46, the program instructions further
2 comprising: receiving preferred product preference information from the buyer; and
ordering the product for the buyer by using the preference information

51. (new) The data processing system of claim 50, wherein the preference information
2 includes price limitation on products.

52. (new) The data processing system of claim 50, wherein the preference information
2 includes occurrence rate of product ordered.

53. (new) The data processing system of claim 46 further comprising: selecting by the buyer
2 a date; and delivering by the server the product ordered according to the date.

54. (new) The data processing system of claim 50 wherein: the fixed pickup station includes
2 a plurality of lockers for containing orders, each of the plurality of lockers having a unique
access code; and giving the user the access code for opening the locker containing the
4 user's order.

55. (new) A method for scheduling and delivery of a product to a buyer along the buyer's
2 commuting route wherein a buyer accesses a server via a communications network,
comprising:

4 receiving route information from a buyer by the server via the
communications network;

6 selecting from a plurality of pickup points a pickup point based on the route
information; and dispatching a mobile pickup station to the pickup point, the
8 mobile pickup station containing a product ordered by the buyer.

56. (new) The method of Claim 55, wherein the plurality of pickup points is further
2 determined by using an approximate buyer route concentration based on route usage.

57. (new) The method of Claim 55, further comprising:

2 receiving a plurality of routes from a plurality of buyers; and selecting the
plurality of pickup points based on the plurality of routes.

58. (new) The method of claim 55, wherein the route information includes zip code.

59. (new) The method of claim 55, wherein the route information includes telephone
2 number.

60. (new) The method of claim 55 further comprises: receiving product preference
2 information from the buyer; and ordering products for the buyer by using the preference
information.

61. (new) The method of claim 60, wherein the preference information includes price
2 limitation on products ordered.

62. (new) The method of claim 60, wherein the preference information includes occurrence
2 rate of each product ordered.

63. (new) The method of claim 55 further comprising: selecting by the buyer a date; and
2 delivering by the server the product ordered according to the date.

64. (new) A data processing system adapted to schedule and deliver a product to a buyer
2 along the buyer's commuting route, comprising:

a processor; and a memory operably coupled to the processor and having
4 program instructions stored therein, the processor being operable to execute the
program instructions, the program instructions including: receiving route
6 information from a buyer; selecting from a plurality of pickup points a pickup point
based on the route information; and dispatching a mobile pickup station to the
8 pickup point, the mobile pickup station containing a product ordered by the buyer.

65. (new) The data processing system of Claim 64, the program instructions further
2 including selecting the plurality of pickup points by using an approximate buyer route
concentration based on route usage.

66. (new) The data processing system of Claim 64, the program instructions further
2 including:

receiving a plurality of routes from a plurality of buyers; and selecting the
4 plurality of pickup points based on the plurality of routes.

67. (new) The data processing system of claim 64, wherein the route information includes zip
2 code.

68. (new) The data processing system of claim 64, wherein the route information includes

2 telephone number.

69. (new) The data processing system of claim 64, the program instructions further
2 comprising: receiving product preference information from the buyer, and ordering
products for the buyer by using the preference information

70. (new) The data processing system of claim 69, wherein the preference information
2 includes price limitation on products.

71. (new) The data processing system of claim 69, wherein the preference information
2 includes occurrence rate of product ordered.

72. (new) The data processing system of claim 64 further comprising: selecting by the buyer
2 a date; and delivering by the server the product ordered according to the date

73. (new) A method for scheduling and delivery of a product to a buyer along the buyer's
2 commuting route wherein a buyer accesses a server via a communications
network, comprising: receiving route information from a buyer by the server via
4 the communications network; selecting from a plurality of fixed pickup stations a
fixed pickup station based on the route information; and delivering a product
6 ordered by the buyer to the fixed pickup station.

74. (new) The method of Claim 73, wherein the plurality of fixed pickup stations is further
2 determined by using an approximate buyer route concentration based on route usage.

75. (new) The method of Claim 73, further comprising:
2 receiving a plurality of routes from a plurality of buyers; and selecting the
plurality of fixed pickup stations based on the plurality of routes.

76. (new) The method of claim 73, wherein the route information includes zip code.

77. (new) The method of claim 73, wherein the route information includes telephone
2 number.

78. (new) The method of claim 73 further comprises: receiving product preference
2 information from the buyer; and ordering products for the buyer by using the preference
information

79. (new) The method of claim 78, wherein the preference information includes price
2 limitation on products.

80. (new) The method of claim 78, wherein the preference information includes occurrence
2 rate of product ordered.

81. (new) The method of claim 73 further comprising: selecting by the buyer a date; and
2 delivering by the server the product ordered according to the date.

82. (new) The method of claim 73, wherein: the fixed pickup station includes a plurality of
2 lockers for containing orders, each of the plurality of lockers having a unique access code;
and giving the user the access code for opening the locker containing the user's order.

83. (new) A data processing system adapted to schedule and deliver a product to a buyer
2 along the buyer's commuting route, comprising:

a processor; and a memory operably coupled to the processor and having
4 program instructions stored therein, the processor being operable to execute the
program instructions, the program instructions including: receiving route
6 information from a buyer; selecting from a plurality of fixed pickup stations a fixed
pickup station based on the route information; and delivering a product ordered by
8 the buyer to the fixed pickup station.

84. (new) The data processing system of Claim 83 the program instructions further including
2 selecting the plurality of fixed pickup stations by using an approximate buyer route
concentration based on route usage.

85. (new) The data processing system of Claim 83, the program instructions further
2 including:

receiving a plurality of routes from a plurality of buyers; and selecting the

4 plurality of fixed pickup stations based on the plurality of routes.

86. (new) The data processing system of claim 83, wherein the route information includes zip
2 code.

87. (new) The data processing system of claim 83, wherein the route information includes
2 telephone number.

88. (new) The data processing system of claim 83, the program instructions further
2 comprising: receiving preferred product preference information from the buyer; and
ordering the product for the buyer by using the preference information

89. (new) The data processing system of claim 88, wherein the preference information
2 includes price limitation on products.

90. (new) The data processing system of claim 88, wherein the preference information
2 includes occurrence rate of product ordered.

91. (new) The data processing system of claim 83 further comprising: selecting by the buyer
2 a date; and delivering by the server the product ordered according to the date

92. (new) The data processing system of claim 83 wherein: the fixed pickup station includes
2 a plurality of lockers for containing orders, each of the plurality of lockers having a unique
access code; and giving the user the access code for opening the locker containing the
4 user's order.